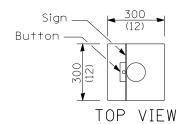


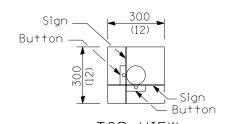
 $\hspace{1.5cm} \hbox{Illinois Department of Transportation} \\$

January 1, 2005

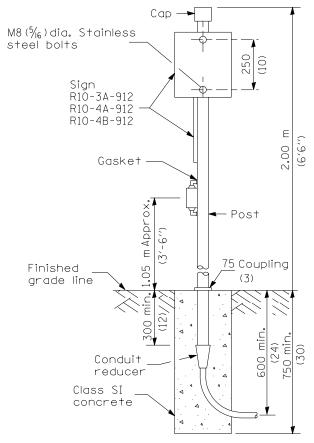




TYPICAL ONE BUTTON INSTALLATION



TOP VIEW TYPICAL TWO BUTTON INSTALLATION



PEDESTRIAN PUSH BUTTON POST INSTALLATION

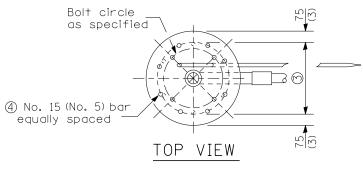
All dimensions are in millimeters (inches) unless otherwise shown.

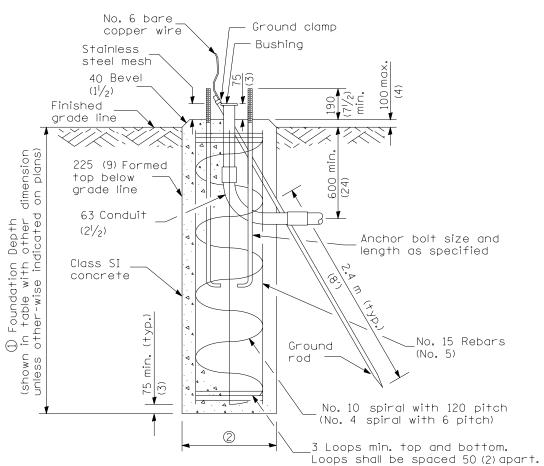
DATE	REVISIONS	
1-1-05	Revised Type E	
	fountation detail.	
1-1-04	Revised Type E	
	foundation table.	
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CONCRETE FOUNDATION DETAILS

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Mast Arm Length	① Foundation Depth*		③ Sprial Diameter	@Quantity of No. 15 (No. 5) Bars
Less than 9.1 m (30′)	3.0 m (10'-0'')	750 (30)	600 (24)	8
Greater than or equal to 9.1 m (30′) and less than	4.1 m (13′-6′′)	750 (30)	600 (24)	8
12.2 m (40')	3.4 m (11'-0'')	900 (36)	750 (30)	12
Greater than or equal to 12.2 m(40') and less than 15.2 m(50')	4.0 m (13′-0′′)	900 (36)	750 (30)	12
Greater than or equal to 15.2 m (50') and up to 16.8 m (55')	4.6 m (15′-0′′)	900 (36)	750 (30)	12

* These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 100 kPa (1.0 tsf). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.

TYPE E

For standard and combination mast arm assemblies. Mast arm assembles with dual arms require a special foundation design.

All dimensions are in millimeters (inches) unless otherwise shown.

CONCRETE FOUNDATION DETAILS

(Sheet 2 of 2)

STANDARD 878001-03

APPROVED January 1, 2005

ENGINEER OF OPERATIONS

APPROVED January 1, 2005

ENGINEER OF OPERATIONS

APPROVED January 1, 2005

ENGINEER OF DESIGN AND ENVIRONMENT